

CROPS

FIELD CROPS

GRAIN CORN production totaled 66.1 million bushels, up slightly from the 1997 level of 66.0 million bushels. Average yield of 114 bushels per acre was up 4 bushels from the previous year. There were 580,000 acres harvested in 1998 compared to 600,000 acres in 1997. The value of production at \$142 million was down 18 percent from last year's \$173 million. Acres harvested for corn silage were down 2 percent from a year earlier: 550,000 in 1998 versus 560,000 in 1997. Value of production for corn silage, at \$223 million, was down 23 percent from the 1997 value of \$289 million. Silage corn production, at 8.80 million tons, increased 5 percent from 1997. Nationally, New York ranked third behind Wisconsin and California in corn silage production.

WHEAT production in 1998 totaled 7.02 million bushels, down 4 percent from 1997's production of 7.28 million bushels. Average yield, at 54 bushels per acre in 1998, was down 2 bushels from the 1997 average of 56 bushels per acre. The value of production, at \$15.1 million, was down 38 percent from \$24.4 million in 1997.

OAT production increased 11 percent from the previous year to 6.51 million bushels. The number of acres harvested, at 105,000 was up 15,000 from a year earlier. Average yield per acre, at 62 bushels, was down 3 bushels from the previous year. The value of New York's oat crop decreased 8 percent from \$9.95 million in 1997 to \$9.11 million in 1998.

RYE acres harvested for grain, at 15,000 acres, was up 8,000 acres from the previous year. Rye production, at

525,000 bushels, was more than double a year earlier. The value of production totaled \$1.05 million, up from \$485,000 in 1997.

ALL DRY HAY production was placed at 3.11 million tons, down 10 percent from 1997 output of 3.44 million tons. Value of production, at \$279 million, makes hay the State's number one crop.

ALFALFA DRY HAY production was 1.47 million tons, 12 percent below the 1997 crop of 1.66 million tons. Value of production was \$148 million in 1998 versus \$183 million in 1997, a 19 percent decrease.

OTHER DRY HAY production, which includes clover-timothy, mixed grasses, etc., was 1.64 million tons, 8 percent lower than 1997's level of 1.78 million tons. Value of production, at \$130 million in 1998 was 9 percent less than the \$143 million obtained in 1997.

POTATO production increased from 7.15 million cwt. in 1997 to 7.29 million in 1998. Yield per acre averaged 270 cwt., 5 cwt. below 1997. Area harvested was 27,000 acres, up 1,000 acres from the year before. Value of production totaled \$68.9 million in 1998 compared to a 1997 value of \$62.6 million.

DRY BEAN production dropped 37 percent to 426,000 cwt. Average yield per acre decreased 140 pounds to 1,420 pounds per acre. Acres harvested was 30,000 acres. The value of production, at \$10.8 million, was down 23 percent from 1997.

1998 CROP SUMMARY

A warm, drier than normal **APRIL** pushed spring fieldwork ahead of schedule. Planting surged forward and timely rainfall encouraged emergence of recently seeded crops and hay growth. Soil moisture was mostly adequate. Onion planting neared completion. Planting of other vegetable crops gained momentum. A late frost damaged fruit crops across the state. Livestock feed supplies were short.

MAY provided excellent weather conditions for planting and harvesting and progress advanced well ahead of usual. Corn planting neared completion by the end of the month; the average progress is only 67 percent planted at this time. Alfalfa was 42 percent harvested, compared to an average of 4 percent. Apples were in good condition. Vegetable planting continued. Tornadoes ripped through eastern areas of the state causing severe damage and disabling some farms. Violent storms across the state produced hail and heavy rain, damaging orchards and vegetable crops.

The third wettest **JUNE** on record stalled fieldwork and increased soil moisture to surplus levels in many fields. Although good for pasture growth, very little dry hay was harvested. Wetness increased disease pressure on fruit and prevented growers from spraying orchards. Dry bean planting neared completion. Oats had headed and upstate potatoes started to bloom.

Wet conditions persisted through the first half of **JULY** but gave way to near ideal weather during the second

half of the month. At the end of July soil moisture had depleted to a level of 40 percent short and 60 percent adequate. Corn was recovering from the wetness; condition was mostly good to excellent. A lot of dry hay was put in the barn. The second cutting of alfalfa reached 81 percent complete. Regrowth was excellent. Wheat harvest wound down, oat harvest picked up momentum. Vegetable harvests were in full swing. Fruit crops were in good condition. Peach harvest got underway.

AUGUST was warm and dry, providing excellent conditions for harvest. Eastern areas of the state were drier than normal for the second consecutive month. Rainfall was needed. Soil moisture supplies fell to 9 percent very short, 26 percent short, and 16 percent adequate. Pastures also deteriorated. The corn crop was in good condition. Corn silage was nearing maturity. Oat harvest reached 93 percent complete with quality and yields rated good. The second cutting of alfalfa was almost complete, the third cutting about half finished, and a fourth cutting began in many areas. Potato harvest got underway about midmonth. Dry beans were being defoliated. Vegetable harvesting continued in high gear. Apple picking had begun by month's end and the Concord grape harvest was just getting underway. Sweet cherry and tart cherry harvests were completed, the pear harvest was 80 percent finished, peaches 60 percent, and pears 40 percent.

SEPTEMBER was warmer and drier than normal. Wide spread violent storms on Labor Day caused considerable

damage to fruit crops. High winds uprooted fruit trees and hail damaged fruit. Fieldwork progressed rapidly during the remainder of the month. Moisture was needed for fall seeded crops. By month's end grain corn was 15 percent harvested and silage corn 63 percent. Progress ran well ahead of normal. Potato digging remained very active and the dry bean harvest shifted into high gear. Orange County onions were 80 percent harvested. McIntosh apple harvest finished by the end of the month and Empire picking began. Cider making was in full swing. Grape harvesting picked up momentum. Concord grapes were in good condition with high sugar levels.

OCTOBER was another warmer and drier than normal month. Soil moisture at month's end was mostly adequate. Warm weather encourage pasture re-growth; conditions were mostly good. Corn was nearly 80 harvested, over twice the normal progress. Harvest remained about two weeks ahead of usual. Hay harvest was essentially done. Soybean, dry bean, and potato harvests were in full swing. Onions were being moved into storage. Most vegetable harvests were finished and growers turned under crop residues. Cabbage and pumpkin harvests moved ahead rapidly. Late apple varieties were still being picked. Grape harvesting in the Finger Lakes finished. Cider making continued.

Table 10. **FIELD CROPS:** Acres, Yield, Production, and Value, 1989-1998

Crop and Year	Planted	Harvested	Yield per acre	Production	Marketing year average price	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Bushels</i>	<i>1,000 bushels</i>	<i>Dollars per bu.</i>	<i>1,000 dollars</i>
<u>WHEAT</u>						
1989	135	130	45.0	5,850	3.50	20,475
1990	150	145	49.0	7,105	2.70	19,184
1991	115	110	49.0	5,390	3.35	18,057
1992	120	110	56.0	6,160	2.70	16,632
1993	95	85	46.0	3,910	3.30	12,903
1994	120	115	53.0	6,095	3.20	19,504
1995	130	125	55.0	6,875	4.20	28,875
1996	160	150	43.0	6,450	4.15	26,768
1997	135	130	56.0	7,280	3.35	24,388
1998	140	130	54.0	7,020	2.15	15,093
<u>OATS</u>						
1989	180	155	59.0	9,145	1.35	12,346
1990	160	135	61.0	8,235	1.41	11,611
1991	130	100	50.0	5,000	1.56	7,800
1992	140	110	70.0	7,700	1.43	11,011
1993	135	105	62.0	6,510	1.38	8,984
1994	130	110	64.0	7,040	1.42	9,997
1995	110	90	58.0	5,220	1.65	8,762
1996	85	70	55.0	3,850	2.10	8,085
1997	100	90	65.0	5,850	1.70	9,945
1998	115	105	62.0	6,510	1.40	9,114
<u>RYE</u>						
1989	80	15	32.0	480	2.55	1,224
1990	60	10	26.0	260	2.55	663
1991	50	8	33.0	264	2.55	673
1992	52	9	32.0	288	2.05	590
1993	40	8	27.0	216	2.25	486
1994	30	8	31.0	248	2.25	558
1995	42	9	35.0	315	2.25	709
1996	49	8	28.0	224	3.00	672
1997	40	7	33.0	231	2.10	485
1998	50	15	35.0	525	2.00	1,050
<u>BARLEY</u>						
1989	16	12	45.0	540	1.90	1,026
1990	12	9	50.0	450	1.95	878
1991	13	11	45.0	495	1.55	767
1992	12	10	56.0	560	1.75	980
1993	14	12	52.0	624	1.65	1,030
1994	12	9	61.0	549	1.75	961
1995	12	10	65.0	650	1.80	1,170
1996	16	12	54.0	648	3.05	1,976
1997	16	13	54.0	702	2.00	1,404
1998	18	16	50.0	800	1.30	1,040

Table 10. **FIELD CROPS:** Acres, Yield, Production, and Value, 1989-1998 (Continued)

Crop and Year	Planted <u>1/</u>	Harvested	Yield per acre	Production	Marketing year average price	Value of production
	<u>1,000 acres</u>	<u>1,000 acres</u>	<u>Bushels</u>	<u>1,000 bushels</u>	<u>Dollars per bu.</u>	<u>1,000 dollars</u>
<u>SOYBEANS</u>						
1989	37	34	29.0	986	5.40	5,324
1990	40	39	35.0	1,365	5.50	7,508
1991	49	48	31.0	1,488	5.30	7,886
1992	52	50	30.0	1,500	5.25	7,875
1993	56	55	34.0	1,870	6.10	11,407
1994	70	68	41.0	2,788	5.00	13,940
1995	66	63	38.0	2,394	6.20	14,843
1996	76	75	35.0	2,625	6.35	16,669
1997	105	102	37.0	3,774	6.00	22,644
1998	100	97	41.0	3,977	5.30	21,078
<u>CORN FOR GRAIN</u>						
1989	1,150	570	93.0	53,010	2.80	148,428
1990	1,210	620	98.0	60,760	2.44	148,254
1991	1,230	660	98.0	64,680	2.70	174,636
1992	1,150	550	92.0	50,600	2.30	116,380
1993	1,100	540	105.0	56,700	2.85	161,595
1994	1,110	570	116.0	66,120	2.65	181,366
1995	1,130	620	105.0	65,100	3.85	246,593
1996	1,150	630	103.0	64,890	2.98	193,372
1997	1,170	600	110.0	66,000	2.62	172,920
1998	1,130	580	114.0	66,120	2.15	142,158
<u>CORN SILAGE</u>						
			<u>Tons</u>	<u>1,000 tons</u>	<u>Dollars per ton</u>	
1989	-	550	13.0	7,150	23.60	168,740
1990	-	580	15.0	8,700	24.90	216,630
1991	-	550	14.0	7,700	23.80	183,260
1992	-	550	14.5	7,975	22.80	181,830
1993	-	550	14.2	7,810	24.10	188,221
1994	-	540	15.8	8,532	22.70	193,676
1995	-	505	14.0	7,070	24.50	173,215
1996	-	510	15.5	7,905	25.80	203,949
1997	-	560	15.0	8,400	34.40	288,960
1998	-	550	16.0	8,800	25.30	222,640
<u>DRY BEANS 2/</u>						
			<u>Lbs.</u>	<u>1,000 cwt.</u>	<u>Dollars per cwt.</u>	
1989	32	31.0	1,450	450	31.30	14,085
1990	41	39.5	1,700	672	16.00	10,752
1991	36	35.0	1,380	483	19.00	9,177
1992	35	29.0	1,050	305	23.40	7,137
1993	37	34.0	1,350	459	19.40	8,905
1994	39	38.5	1,520	585	20.30	11,876
1995	34	33.0	1,630	538	18.10	9,738
1996	30	29.0	1,300	377	27.00	10,179
1997	44	43.5	1,560	679	20.60	13,987
1998	31	30.0	1,420	426	25.30	10,778

1/ Complete utilization of corn acreage planted is shown on page 23. Corn planted acreage includes corn for grain, silage, forage, and abandoned acres.

2/ Production by major varieties is shown on page 22.

Table 10. **FIELD CROPS:** Acres, Yield, Production, and Value, 1989-1998 (Continued)

Crop and Year	Planted	Harvested	Yield per acre	Production	Marketing year average price	Value of production
	<u>1,000 acres</u>	<u>1,000 acres</u>	<u>Tons</u>	<u>1,000 tons</u>	<u>Dollars per ton</u>	<u>1,000 dollars</u>
<u>ALFALFA HAY</u>						
1989	-	840	2.45	2,058	88.00	181,104
1990	-	860	2.55	2,193	85.50	187,502
1991	-	760	2.50	1,900	84.50	160,550
1992	-	800	2.35	1,880	95.50	179,540
1993	-	700	2.45	1,715	97.00	166,355
1994	-	620	2.95	1,829	93.00	170,097
1995	-	650	2.60	1,690	94.00	158,860
1996	-	640	2.70	1,728	99.50	171,936
1997	-	640	2.60	1,664	110.00	183,040
1998	-	600	2.45	1,470	101.00	148,470
<u>OTHER HAY</u>						
1989	-	1,240	2.00	2,480	60.50	150,040
1990	-	1,120	1.95	2,184	64.50	140,868
1991	-	1,190	1.85	2,202	72.00	158,544
1992	-	900	1.90	1,710	76.50	130,815
1993	-	1,050	1.80	1,890	74.50	140,805
1994	-	1,040	2.05	2,132	75.00	159,900
1995	-	950	1.85	1,758	72.00	126,576
1996	-	870	2.00	1,740	74.50	129,630
1997	-	890	2.00	1,780	80.50	143,290
1998	-	800	2.05	1,640	79.50	130,380
<u>ALL HAY 1/</u>						
1989	-	2,080	2.18	4,538	75.50	331,144
1990	-	1,980	2.21	4,377	77.00	328,370
1991	-	1,950	2.10	4,102	77.50	319,094
1992	-	1,700	2.11	3,590	88.00	310,355
1993	-	1,750	2.06	3,605	90.50	307,160
1994	-	1,660	2.39	3,961	84.50	329,997
1995	-	1,600	2.16	3,448	85.50	285,436
1996	-	1,510	2.30	3,468	87.00	301,566
1997	-	1,530	2.25	3,444	94.00	326,330
1998	-	1,400	2.22	3,110	89.50	278,850

1/ All hay price is based on weighted sales, not production.

Table 11. **POTATOES:** Acreage, Yield, Production, and Disposition, Sales, and Value, 1989-1998

Crop Year	Planted	Harvested	Yield per acre	Production	Used on farms where grown <u>1/</u>	Sold	Marketing year average price	Value	
								Production	Sales
	<u>Acres</u>	<u>Acres</u>	<u>Cwt.</u>	----- <u>1,000 cwt.</u> -----		<u>Dollars per cwt.</u>		<u>1,000 dollars</u>	
1989	30,000	28,800	230	6,628	383	6,245	8.70	57,664	54,331
1990	29,000	28,500	277	7,890	430	7,460	7.40	58,386	55,204
1991	29,600	29,500	234	6,917	542	6,375	8.70	60,178	55,463
1992	28,200	27,000	289	7,808	1,043	6,765	6.65	51,923	44,987
1993	28,800	28,200	273	7,693	585	7,108	8.20	63,083	58,286
1994	29,100	28,600	273	7,805	548	7,257	9.75	76,190	70,814
1995	28,000	27,500	270	7,425	445	6,980	7.45	55,316	52,001
1996	27,000	26,500	280	7,420	468	6,952	7.30	54,166	50,750
1997	26,500	26,000	275	7,150	454	6,696	8.75	62,563	58,590
1998	27,600	27,000	270	7,290	<u>2/</u>	<u>2/</u>	9.45	68,891	<u>2/</u>

1/ Includes feed and seed used on farms where produced and shrinkage during storage.

2/ Available September 22, 1999.Table 12. **POTATOES:** Stocks Held by Growers and Local Dealers, 1989-1998 1/

Crop Year	December 1	January 1	February 1	March 1	April 1
	<i>1,000 cwt.</i>				
1989	3,100	2,100	1,500	<u>2/</u>	<u>2/</u>
1990	3,150	2,210	1,220	<u>2/</u>	<u>2/</u>
1991	3,050	2,450	1,700	<u>2/</u>	<u>2/</u>
1992	3,000	3,100	2,240	<u>2/</u>	<u>2/</u>
1993	3,650	2,000	1,200	<u>2/</u>	<u>2/</u>
1994	4,200	3,000	1,800	<u>2/</u>	<u>2/</u>
1995	3,400	2,500	1,500	900	400
1996	3,700	2,400	1,400	800	350
1997	3,600	2,500	1,500	800	400
1998	3,800	2,500	1,600	900	350

1/ Total stocks consist of production less total disappearance to date. Disappearance includes all sales for all purposes, all potatoes eaten or fed on farms where produced and all losses to date through shrinkage, decay, dumping, etc.

2/ Not published to avoid disclosure of individual operations.

Table 13. **DRY BEANS:** Acreage, Yield, Production, and Off-Farm Stocks, by Class, 1989-1998

Crop Year	Acres		Yield per acre	Production	Off-Farm Stocks		
	Planted	Harvested			Jan. 1	Apr. 1	Sept. 1
	<i>1,000 acres</i>		<i>Cwt.</i>	<i>1,000 cwt.</i>		<i>1,000 cwt.</i>	
<u>RED KIDNEY</u>							
1989	22.0	21.5	14.8	318	120	58	5
1990 Light	21.0	20.0	16.8	336	152	67	6
1990 Dark	5.5	5.4	16.9	91	3	1	-
1991 Light	20.0	19.5	13.6	266	151	102	1/
1991 Dark	4.5	4.3	15.3	66	8	6	1/
1992 Light	19.5	16.0	9.7	155	99	63	1/
1992 Dark	3.5	2.6	10.8	28	1	1/	-
1993 Light	20.0	18.0	12.8	230	142	63	1/
1993 Dark	5.0	4.8	12.5	60	1	-	-
1994 Light	21.0	20.5	14.8	303	138	81	1/
1994 Dark	5.0	5.0	14.6	73	-	-	-
1995 Light	19.0	18.0	16.2	292	125	72	1/
1995 Dark	4.0	4.0	16.0	64	-	-	1/
1996 Light	16.5	16.0	12.7	203	113	78	1/
1996 Dark	3.5	3.0	12.7	38	1/	1/	1/
1997 Light	25.0	24.5	15.8	387	80	60	1/
1997 Dark	2.0	2.0	16.5	33	1/	1/	1/
1998 Light	16.0	15.5	13.5	209	113	56	2/
1998 Dark	2.0	2.0	16.0	32	1/	1/	2/
<u>BLACK</u>							
1989	7.1	6.8	14.1	96	28	16	1
1990	10.0	9.8	17.6	172	51	22	4
1991	8.0	7.8	12.7	99	65	60	1/
1992	8.5	7.2	12.5	90	52	36	11
1993	8.0	7.5	16.0	120	92	37	12
1994	9.0	9.0	16.2	146	90	45	12
1995	8.0	8.0	16.9	135	93	58	15
1996	7.0	7.0	14.3	100	63	49	14
1997	13.0	13.0	15.3	199	58	35	11
1998	10.5	10.0	14.7	147	82	52	2/
<u>OTHER CLASSES</u>							
1989	2.9	2.7	13.3	36	14	2	1
1990	4.5	4.3	17.0	73	17	12	6
1991	3.5	3.4	15.3	52	20	15	8
1992	3.5	3.2	10.0	32	17	1/	1/
1993	4.0	3.7	13.2	49	16	2	1/
1994	4.0	4.0	15.8	63	23	12	1/
1995	3.0	3.0	15.7	47	35	12	5
1996	3.0	3.0	12.0	36	1/	1/	7
1997	4.0	4.0	15.0	60	1/	1/	16
1998	2.5	2.5	15.2	38	1/	1/	2/
<u>ALL CLASSES</u>							
1989	32.0	31.0	14.5	450	162	76	7
1990	41.0	39.5	17.0	672	223	102	16
1991	36.0	35.0	13.8	483	244	183	82
1992	35.0	29.0	10.5	305	169	106	36
1993	37.0	34.0	13.5	459	251	102	25
1994	39.0	38.5	15.2	585	251	138	24
1995	34.0	33.0	16.3	538	253	142	26
1996	30.0	29.0	13.0	377	211	146	26
1997	44.0	43.5	15.6	679	159	127	34
1998	31.0	30.0	14.2	426	210	108	2/

1/ Included in total to avoid disclosure of individual operations.

2/ Available September 1999.

Table 14. **CORN:** Acreage Utilization, 1989-1998

Crop Year	Total acres planted	Acres harvested for					
		All Grain	Dry Shelled	High Moisture Shelled	High Moisture Ground Ear	Silage	Forage and abandoned
		<i>1,000 acres</i>					
1989	1,150	570	350	160	60	550	30
1990	1,210	620	380	180	60	580	10
1991	1,230	660	430	175	55	550	20
1992	1,150	550	400	120	30	550	50
1993	1,100	540	390	120	30	550	10
1994	1,110	570	420	120	30	540	0
1995	1,130	620	460	130	30	505	5
1996	1,150	630	435	175	20	510	10
1997	1,170	600	450	120	30	560	10
1998	1,130	580	435	115	30	550	0

Table 15. **HAY:** Stocks on Farms, 1989-1998

Crop Year	Total production	Stocks Following Harvest			
		December 1		May 1	
		Stocks	Percent of production	Stocks	Percent of production
	<i>1,000 tons</i>	<i>1,000 tons</i>	<i>Percent</i>	<i>1,000 tons</i>	<i>Percent</i>
1989	4,538	3,177	70	998	22
1990	4,377	3,502	80	1,007	23
1991	4,102	2,666	65	615	15
1992	3,590	2,334	65	503	14
1993	3,605	1,983	55	361	10
1994	3,961	2,377	60	594	15
1995	3,448	2,069	60	552	16
1996	3,468	2,254	65	552	16
1997	3,444	1,998	59	555	17
1998	3,110	1,990	62	344	12

NEW YORK FEED GRAIN DEFICIT IN 1998

New York feed grain production (*corn, oats, barley*) in 1998 rose 1 percent from a year earlier, but was more than offset by a 4 percent increase in the quantity of grain fed. The number of grain consuming animal units remained unchanged from 1997, but an increase in the quantity of grain fed per animal pushed New York's feed grain deficit above that of the previous year.

Although the feed grain deficit in recent years has been lower than in the 1970's and 1980's, feed grain is brought into New York annually to meet the feeding requirements of the State's livestock and poultry industry. Feed grain produced in New York during 1998 met 93 percent of the State's feeding requirements. In 1997 it met 96 percent of the State's feeding requirements.

Table 16. **FEED GRAIN:** Production and Quantities Fed, 1989-1998

Year	Quantity Produced	Quantity Fed	Quantity of Deficit
	<i>1,000 tons</i>		
1989	1,643	2,163	520
1990	1,844	2,207	363
1991	1,903	2,239	336
1992	1,553	2,271	718
1993	1,707	2,191	484
1994	1,977	2,113	136
1995	1,923	2,134	211
1996	1,895	2,111	216
1997	1,959	2,048	89
1998	1,974	2,130	156

